ELSEVIER

Information Processing Letters 56 (1995) 349–350

Information Processing Letters

Subject Index Volume 56 (1995)

15-puzzle 23

Abstract architectures 1
Abstract machines 201
Algorithms 29, 51, 67, 77, 79, 89, 101, 123, 157, 165, 173, 215, 245, 281, 307, 329, 335
Alternation 229
Analysis of algorithms 15, 23, 73, 95, 135, 265
Approximation algorithms 51, 67
Authentication 151
Authentication protocols 131
Automata 185

Biased coins 245
Biconnected components 37
Bipartite permutation graphs 165
Branching process 281
Breadth-first search 101

Call control 173
Chordal completion 115
Circles 157
Circular convex bipartite graph 215
Closure reduction 1
Combinatorial problems 101, 299
Combinatorics 45, 249
Communication complexity 191
Competitive analysis 135
Compilers 221
Computational complexity 329
Complexity 237
Computational complexity 109, 147, 191, 229, 253
Computational geometry 9, 45, 157, 255, 273
Computational lower bounds 229
Computer architecture 273
Concurrent writing 59
Connected components 37
Connected domination 101
Convex bipartite graph 215
Convex hulls 157
Convexity 45
CRCW PRAMs 59
Cryptanalysis 73
Cryptography 249
Cryptosystems 73

Databases 209
Design of algorithms 179, 273
Diameter 259
Discrete mathematics 299
Discrete minimization 51
Distributed systems 19, 131, 151
Divide and conquer 23
Dynamic programming 45

Edge domination 165
Elimination tree 115
Encryption/decryption 151
EREW computational model 83
Error correcting codes 89
Euclidean plane 255
Expected case analysis 265
Expressive power 209
Extremal sets 335

Fault tolerance 259
Fault tolerant routing 29
Fill 115
Finite automata 237
Formal languages 185, 197, 201, 229, 293
Formal power series 293
Formal semantics 141

Game tree 89
Gap 191
Garbage collection 1
Generalized ranking 321
Genetic algorithms 77, 281
Graph algorithms 165, 341
Graph theory 83, 299
Graphs 321
Greedy algorithms 23

Hamiltonian circuit 215
Hamiltonian completion number 299
Hamiltonian path 299
Hazard 77
Horton–Strahler number 95

Incomplete information 209
Indifference graphs 179

Elsevier Science B.V.

Infinite words 197
Interconnection networks 29
Interval graphs 37, 179, 299
Iteration 315

Learning with queries 15
Lexicographic order 321, 335
Line graph 299
Linear congruences 73
Linear programming 79
List-update 135
Location problems 67
Lower bounds 23, 147
Lower envelopes 157

Manhattan distance 23
Maximal matching 341
Maximum matching 215
Metric spaces 265
Minimum weight triangulation 255
Modulo functions 15
Mutual exclusion algorithms 19

(n_1^2)-puzzle 23
Nearest neighbour search 265
Nearly optimal edge search 233
Neural nets 201
Neural networks 253
Node disjoint paths 29
Node symmetry 259
NP-hard 51

On-line algorithms 135
Optimal algorithms 341
Order statistics 123

Parabolas 157
Parallel algorithms 37, 59, 83, 233, 273, 307, 341
Parallel processing 115, 221
Partition 51
Permutation graphs 83
Petri net languages 237
Point sets 255
Prefix summation 59
Primitive computable functions 315
Private-key cryptosystems 249
Probabilistic analysis 95
Probabilistic Turing machines 245
Program correctness 221
Program simplification 307
Public key 73
Public-key cryptography 131

Query languages 209

Random binary trees 95
Randomized algorithms 79, 245
Rank of a matrix 191
Rational transductions 293
Real-time algorithm 23
Reducibilities 109
Routing 259

Scheduling 173
Schema 77, 281
Schema processing 281
Security in digital systems 131, 151
Selection 123
Set-theoretic algorithms 335
Simplex algorithm 79
Slicing 307
Sorting 253
Spanning tree 83
Sparse matrix 115
Sparse sets 109
Star graphs 259
Statistical cryptanalysis 249
Steiner set 101
Storage allocation 51
Subset graph 335
Subset partial order 335

Takeover time 281
Theory of computation 185, 315
Threshold circuits 147, 253
TIM 1
Total interval number 299
Trapezoid graph 101
Trees 299, 301
Type theory 141

Variables and assignment 141
Vector addition system languages 237
Vertex elimination 115
Visibility 9
Visible vertices 321
Worst-case bound 51

ELSEVIER

Information Processing Letters 56 (1995) 351–353

Information Processing Letters

Author Index Volume 56 (1995)

(The issue number is given in front of the page numbers)

Albers, S., B. von Stengel and **R. Werchner**, A combined BIT and TIMESTAMP algorithm for the list update problem 56 (1995) 135
Arvind, V., J. Köbler and **M. Mundhenk**, On reductions to sets that avoid EXPSPACE 56 (1995) 109
Aspvall, B., Minimizing elimination tree height can increase fill more than linearly 56 (1995) 115

Barsi, F. and **M.C. Pinotti**, Addendum to "A fully parallel algorithm for residue to binary conversion" (*Erratum*) 56 (1995) 121
Bertoni, A., N. Cesa-Bianchi and **G. Fiorino**, Efficient learning with equivalence queries of conjunctions of modulo functions 56 (1995) 15
Blum, N., *see* **Liang, Y.D.** 56 (1995) 215
Bokka, V., H. Gurla, S. Olariu and **J.L. Schwing**, Time- and VLSI-optimal convex hull computation on meshes with multiple broadcasting 56 (1995) 273
Broder, A.Z., M.E. Dyer, A.M. Frieze, P. Raghavan and **E. Upfal**, The worst-case running time of the random simplex algorithm is exponential in the height 56 (1995) 79
Bshouty, N.H., On the additive complexity of 2×2 matrix multiplication 56 (1995) 329

Cesa-Bianchi, N., *see* **Bertoni, A.** 56 (1995) 15
Chakraborty, U.K., A simpler derivation of schema hazard in genetic algorithms 56 (1995) 77
Chakraborty, U.K., A branching process model for genetic algorithms 56 (1995) 281
Chang, M.-S., *see* **Srinivasan, A.** 56 (1995) 165
Chen, H.-C., *see* **Wang, Y.-L.** 56 (1995) 83
Chen, R.-J., *see* **Chiang, W.-K.** 56 (1995) 259
Chiang, W.-K. and **R.-J. Chen**, The (n,k)-star graph: A generalized star graph 56 (1995) 259
Clark, J. and **J. Jacob**, On the security of recent protocols 56 (1995) 151
Codenotti, B., G. Manzini and **L. Margara**, Algebraic techniques in communication complexity 56 (1995) 191
Cusick, T.W., Cryptanalysis of a public key system based on Diophantine equations 56 (1995) 73

Damaschke, P., A parallel algorithm for nearly optimal edge search 56 (1995) 233
Danicic, S., M. Harman and **Y. Sivagurunathan**, A parallel algorithm for static program slicing 56 (1995) 307
Devillers, O. and **M.J. Golin**, Incremental algorithms for finding the convex hulls of circles and the lower envelopes of parabolas 56 (1995) 157
Devroye, L. and **P. Kruszewski**, A note on the Horton–Strahler number for random trees 56 (1995) 95
Dyer, M.E., *see* **Broder, A.Z.** 56 (1995) 79

Estivill-Castro, V., J. O'Rourke, J. Urrutia and **D. Xu**, Illumination of polygons with vertex lights 56 (1995) 9

Fiorino, G., *see* **Bertoni, A.** 56 (1995) 15
Frieze, A.M., *see* **Broder, A.Z.** 56 (1995) 79

Golin, M.J., *see* **Devillers, O.** 56 (1995) 157
Greenwood, G.W., On the equity of mutual exclusion algorithms in distributed systems 56 (1995) 19
Gu, Q.-P. and **S. Peng**, Node-to-node cluster fault tolerant routing in star graphs 56 (1995) 29
Gurla, H., *see* **Bokka, V.** 56 (1995) 273

Hagerup, T., The parallel complexity of integer prefix summation 56 (1995) 59
Hains, G., *see* **Utard, G.** 56 (1995) 221
Han, Y., An improvement on parallel computation of a maximal matching 56 (1995) 343
Harman, M., *see* **Danicic, S.** 56 (1995) 307
Herrera de Figueiredo, C.M., J. Meidanis and **C. Picinin de Mello**, A linear-time algorithm for proper interval graph recognition 56 (1995) 179

Elsevier Science B.V.

Jacob, J., *see* **Clark, J.** 56 (1995) 151
Jukna, S., Computing threshold functions by depth-3 threshold circuits with smaller thresholds of their gates 56 (1995) 147

Köbler, J., *see* **Arvind, V.** 56 (1995) 109
Krumke, S.O., On a generalization of the p-Center Problem 56 (1995) 67
Kruszewski, P., *see* **Devroye, L.** 56 (1995) 95
Kuich, W., Representations and complete semiring morphisms 56 (1995) 293

Lawler, E.L. and **S. Sarkissian**, An algorithm for "Ulam's Game" and its application to error correcting codes 56 (1995) 89
Lee, C.-Y., *see* **Wang, Y.-L.** 56 (1995) 83
Leung, J.Y.-T. and **W.-D. Wei**, Tighter bounds on a heuristic for a partition problem 56 (1995) 51
Liang, Y.D., Steiner set and connected domination in trapezoid graphs 56 (1995) 101
Liang, Y.D. and **N. Blum**, Circular convex bipartite graphs: Maximum matching and Hamiltonian circuits 56 (1995) 215
Libkin, L. and **L. Wong**, On representation and querying incomplete information in databases with bags 56 (1995) 209
López, D., *see* **Sempere, J.M.** 56 (1995) 201
Lowe, G., An attack on the Needham–Schroeder public-key authentication protocol 56 (1995) 131

Madhukar, K., *see* **Srinivasan, A.** 56 (1995) 165
Manzini, G., *see* **Codenotti, B.** 56 (1995) 191
Margara, L., *see* **Codenotti, B.** 56 (1995) 191
Mazzanti, S., Succinct iterative characterizations of primitive computable unary functions 56 (1995) 315
Meidanis, J., *see* **Herrera de Figueiredo, C.M.** 56 (1995) 179
Mereghetti, C. and **G. Pighizzini**, A remark on middle space bounded alternating Turing machines 56 (1995) 229
Mitchell, J.S.B., G. Rote, G. Sundaram and **G. Woeginger**, Counting convex polygons in planar point sets 56 (1995) 45
Mundhenk, M., *see* **Arvind, V.** 56 (1995) 109

Nagai, N., *see* **Zhou, X.** 56 (1995) 321
Nagavamsi, P., *see* **Srinivasan, A.** 56 (1995) 165
Nishizeki, T., *see* **Zhou, X.** 56 (1995) 321

Olariu, S., *see* **Bokka, V.** 56 (1995) 273
O'Rourke, J., *see* **Estivill-Castro, V.** 56 (1995) 9

Pandu Rangan, C., *see* **Srinivasan, A.** 56 (1995) 165
Parberry, I., A real-time algorithm for the $(n^2 - 1)$-puzzle 56 (1995) 23
Peng, S., *see* **Gu, Q.-P.** 56 (1995) 29
Petreschi, R. and **A. Sterbini**, Recognizing strict 2-threshold graphs in O(m) time 56 (1995) 65
Picinin de Mello, C., *see* **Herrera de Figueiredo, C.M.** 56 (1995) 179
Pighizzini, G., *see* **Mereghetti, C.** 56 (1995) 229
Pin, J.-E., A negative answer to a question of Wilke on varieties of ω-languages 56 (1995) 197
Pinotti, M.C., *see* **Barsi, F.** 56 (1995) 121
Pritchard, P., A simple sub-quadratic algorithm for computing the subset partial order 56 (1995) 337
Prodinger, H., Multiple Quickselect – Hoare's Find algorithm for several elements 56 (1995) 123

Raghavan, P., *see* **Broder, A.Z.** 56 (1995) 79
Rao, N.M., *see* **Saxena, S.** 56 (1995) 37
Raychaudhuri, A., The total interval number of a tree and the Hamiltonian completion number of its line graph 56 (1995) 299
Rote, G., *see* **Mitchell, J.S.B.** 56 (1995) 45
Rubinstein, R.S. and **J.N. Shutt**, Self-modifying finite automata: An introduction 56 (1995) 185

Sarkissian, S., *see* **Lawler, E.L.** 56 (1995) 89
Saxena, S. and **N.M. Rao**, Parallel algorithms for connectivity problems on interval graphs 56 (1995) 37
Schwing, J.L., *see* **Bokka, V.** 56 (1995) 273
Sempere, J.M. and **D. López**, A McCulloch–Pitts neural net to characterize even linear languages 56 (1995) 201
Shutt, J.N., *see* **Rubinstein, R.S.** 56 (1995) 185
Sivagurunathan, Y., *see* **Danicic, S.** 56 (1995) 307
Smith, G., *see* **Volpano, D.** 56 (1995) 141
Srinivasan, A., K. Madhukar, P. Nagavamsi, C. Pandu Rangan and **M.-S. Chang**, Edge domination on bipartite permutation graphs and cotriangulated graphs 56 (1995) 165
Sterbini, A., *see* **Petreschi, R.** 56 (1995) 65
Sundaram, G., *see* **Mitchell, J.S.B.** 56 (1995) 45

Tavares, S.E., *see* **Youssef, A.M.** 56 (1995) 249
Thomas, S., Garbage collection in shared-environment closure reducers: Space-efficient depth first copying using a tailored approach 56 (1995) 1
Tomkins, A., Lower bounds for two call control problems 56 (1995) 173

Uehara, R., Efficient simulations by a biased coin 56 (1995) 245
Upfal, E., *see* **Broder, A.Z.** 56 (1995) 79
Urrutia, J., *see* **Estivill-Castro, V.** 56 (1995) 9
Utard, G. and **G. Hains**, Deadlock-free absorption of barrier synchronisations 56 (1995) 221

Vilar, J.M., Reducing the overhead of the AESA metric-space nearest neighbour searching algorithm 56 (1995) 265
Volpano, D. and **G. Smith**, A type soundness proof for variables in LCF ML 56 (1995) 141
Von Stengel, B., *see* **Albers, S.** 56 (1995) 135

Wang, Y.-L., H.-C. Chen and **C.-Y. Lee**, An O(log n) parallel algorithm for constructing a spanning tree on permutation graphs 56 (1995) 83
Wei, W.-D., *see* **Leung, J.Y.-T.** 56 (1995) 51
Werchner, R., *see* **Albers, S.** 56 (1995) 135
Woeginger, G., *see* **Mitchell, J.S.B.** 56 (1995) 45
Wong, L., *see* **Libkin, L.** 56 (1995) 209

Xu, D., *see* **Estivill-Castro, V.** 56 (1995) 9

Yang, B.-T., A better subgraph of the minimum weight triangulation 56 (1995) 255
Yao, X., A note on neural sorting networks with O(1) time complexity 56 (1995) 253
Yen, H.-C., A note on fine covers and iterable factors of VAS languages 56 (1995) 237
Youssef, A.M. and **S.E. Tavares**, Resistance of balanced s-boxes to linear and differential cryptanalysis 56 (1995) 249

Zhou, X., N. Nagai and **T. Nishizeki**, Generalized vertex-rankings of trees 56 (1995) 321